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WO 2005/084190

PCT/US2005/003245

1/45

FIGURE 1

MetGlyPheLeuLysLeuIle (SEQ ID NO:2)
CTGCCGCCGGCCGCCGCCGTCATGGGGTTCCCTGAAACTGATT
GACGGCGGCCGCGCCGGCAGTACCCCAAGGACTTTGACTAA (SEQ ID NO:1)

5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |

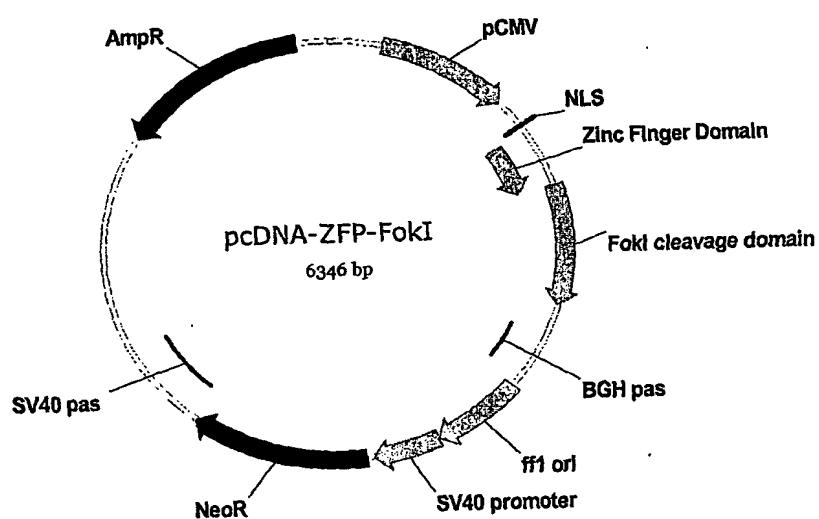
FIGURE 2

FIGURE 3

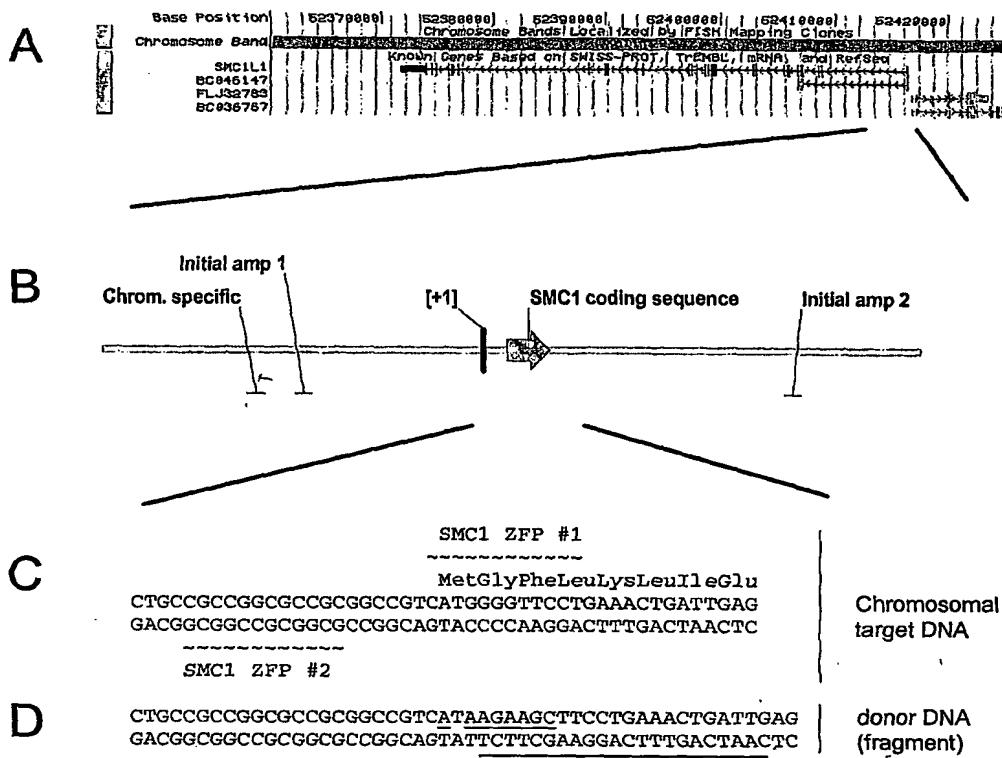


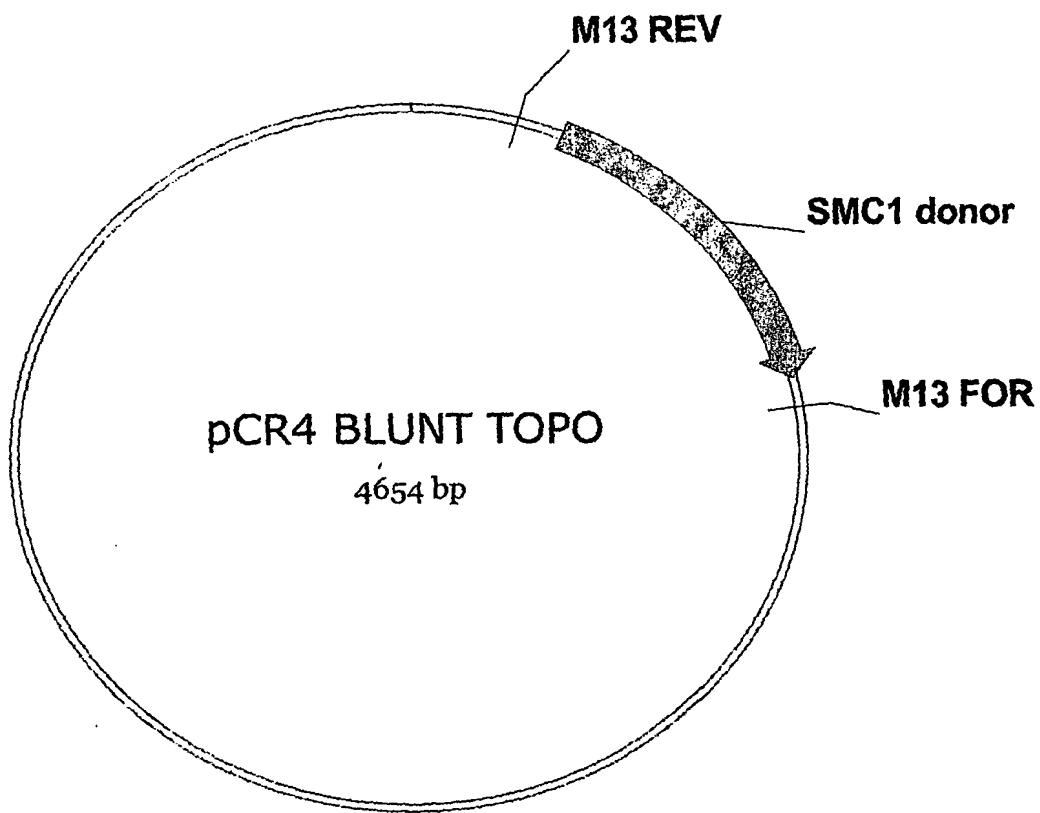
FIGURE 4

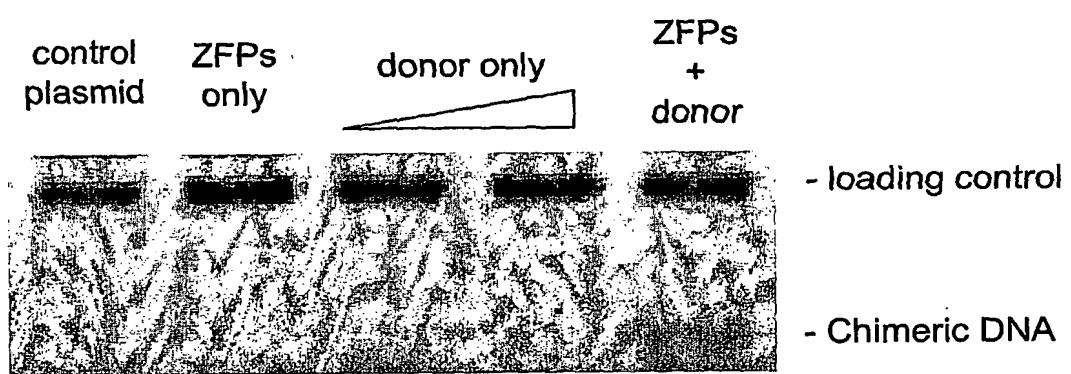
FIGURE 5

FIGURE 6

TAGTCCTGCAGGTTAACGAATTGCCCTCTCAGCAAGCGTGAGCTCA 50
GGTCTCCCCGGCTCCTGAACCTCAAGAACTGCTCTGACTCCGCCAGC 100
AACAACTCCTCCGGGGATCTGGTCCGCAGGAGCAAGTGTGTTGCC 150
ATGCAACAAGAAAAGGGGGCGGAGGCACCACGCCAGTCGTCACTCGCTC 200
CTCGTATAACGCAACATCAGTCCCCGCCCTGGTCCACTCCTGCCAG 250
GCGAAGATCCCGTTAGGCCTGGACGTATTCTCGCACATTGCCGGTCGC 300
CCGGCTTGCACTGCGGCGTTCCCGCGCGGGCTACCTCAGTTCTCGGCG 350
TACGGCGCGGCCCTGCTACTGCTGCCGGCGCCGGCGTCATaqaag 400
cTTCCTGAAACTGATTGAAGGGCGAATTGCCCTAAATTCAATTG 450
CCCTATAGTGAGT

(SEQ ID NO: 6)

FIGURE 7

TyrLysAsnSerAspAsnAspLysVal (SEQ ID
NO:8)

CTTCCAACTTCTCCTCTAGGTACAAGAACTCGGATAATGATAAAAGTCC
GAAGGTTGGAAAGAGGGAGATCCATGTTCTGAGCCTATTACTATTCAGG (SEQ ID
NO:7)

| | | | | | | | |
 5 10 15 20 25 30 35 40 45 50

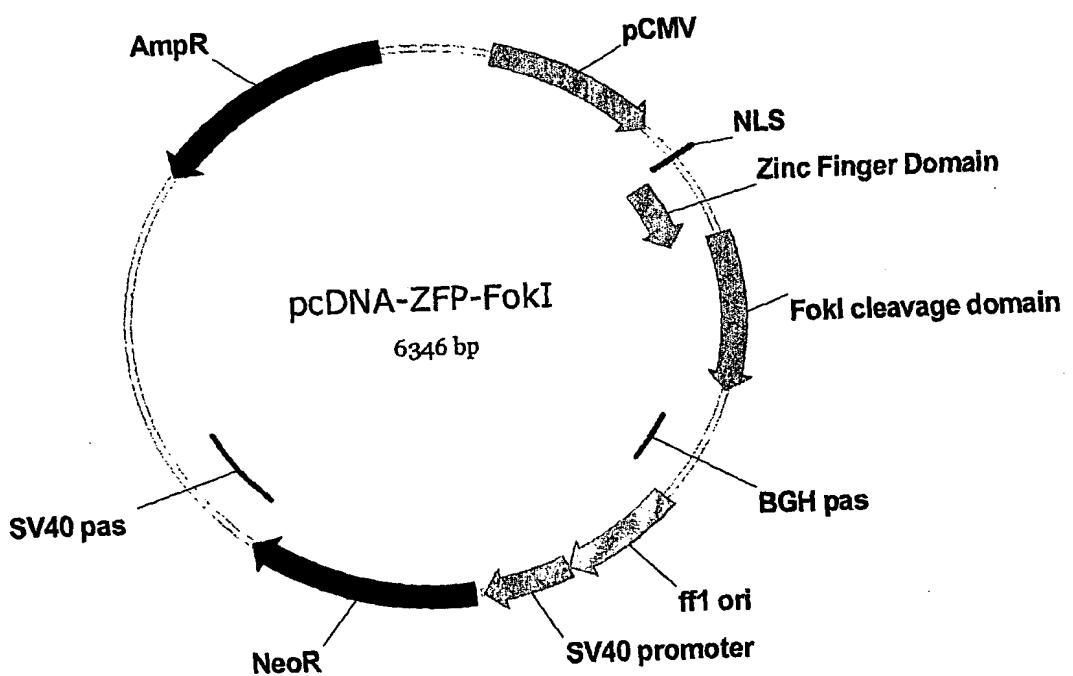
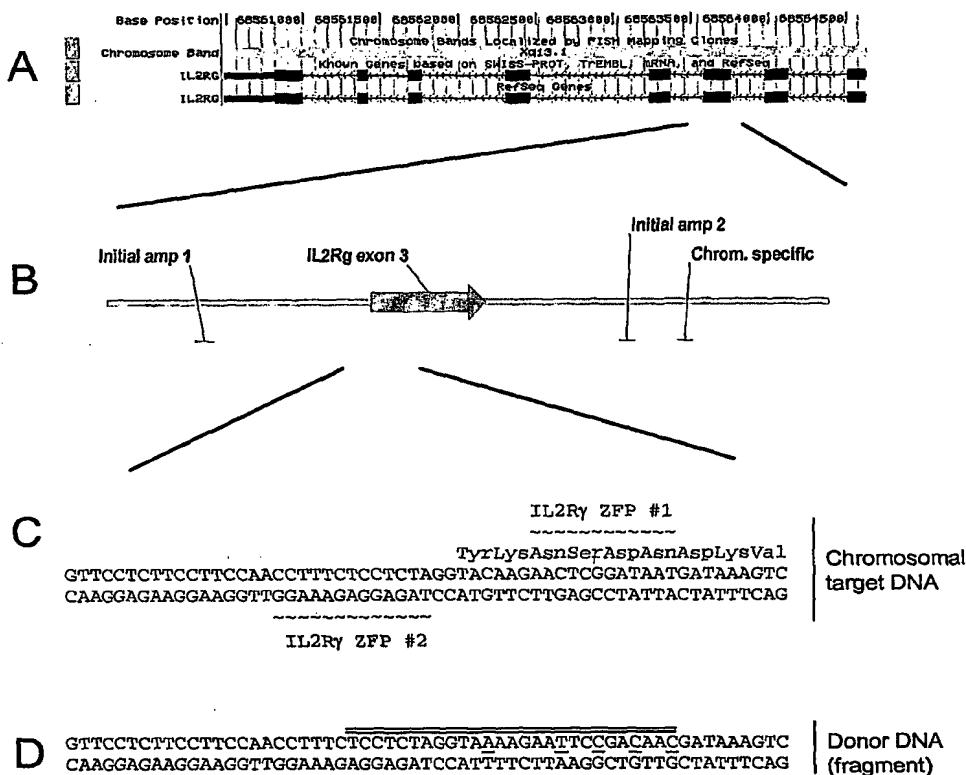
FIGURE 8

FIGURE 9

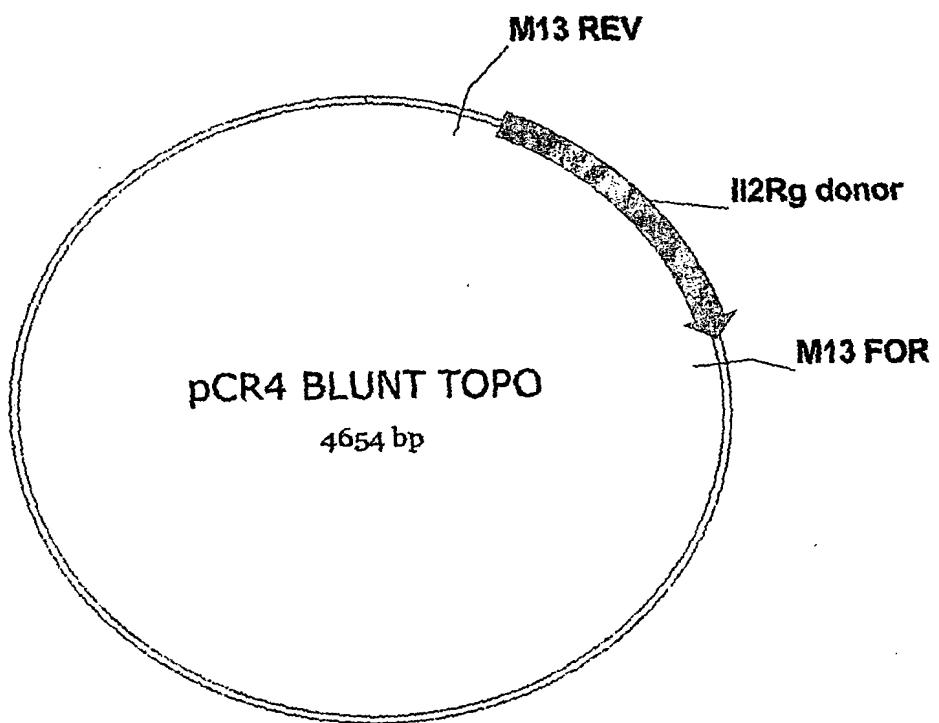
10/45**FIGURE 10**

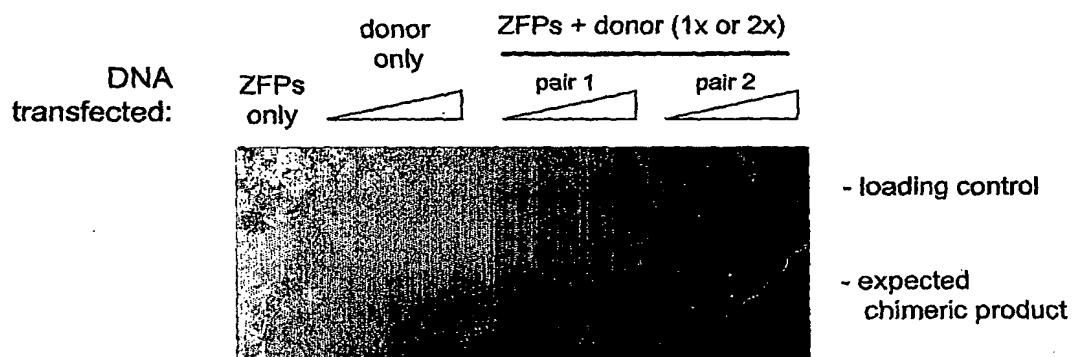
FIGURE 11

FIGURE 12

TAGTCCTGCAGGTTAAACGAATTGCCCTTCCCTAGGTaaAAGAatT	50
<u>CcGacAAc</u> GATAAAGTCCAGAAGTGCAGCCACTATCTATTCCCTGAAGAA	100
ATCACTTCTGGCTGTCAGTGCAAAAAAAGGAGATCCACCTCTACCAAAC	150
ATTTGTTGTTAGCTCCAGGACCCACGGGAACCCAGGAGACAGGCCACAC	200
AGATGCTAAAATGCAAGAATCTGGTAATTGGAAAGAAAGGGTCAAGAG	250
ACCAGGGATACTGTGGACATTGGAGTCTACAGAGTAGTGTCTTTATC	300
ATAAGGGTACATGGCAGAAAAGAGGAGGTAGGGGATCATGATGGGAAGG	350
GAGGAGGTATTAGGGCACTACCTTCAGGATCCTGACTTGTCTAGGCCAG	400
GGGAATGACCACATATGCACACATATCTCCAGTGAATCCCAGCTAGAACTGA	450
AGAACCTAACACTTCACAAACTGAGTGAATCCCAGCTAGAACTGA	500
AACAAACAGATTCTGAACCACGTGGAGCACTGGTGCAGTACCGGAC	550
<u>TAAGGGCGAATTGCCGCTAAATTCAATTCGCCCTATAGTGAGTCGT</u>	600
<u>ATTACAATTCACTGGCCGTCGTT</u>	

(SEQ ID NO:12)

FIGURE 13

TACTGATGGTATGGGCCAAGAGATATATCTTAGAGGGAGGGCTGAGGGT	50
TTGAAGTCCAACCTCTAACGCCAGTGCCAGAACAGGCCAAGGACAGGTACGG	100
CTGTCATCACTTAGACCTCACCCCTGTGGAGCCACACCCTAGGGTTGCCA	150
ATCTACTCCCAGGAGCAGGGAGGGCAGGAGCCAGGGCTGGGCATAAAAGT	200
CAGGGCAGGCCATCTATTGCTTACATTGCTTCTGACACAACGTGTTCA	250
ACTAGCAACCTCAAACAGACACCATGGTGCATCTGACTCCTG <u>A</u> GGAGAAG	300
TCTGCCGTTACTGCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGG	350
TGAGGCCCTGGGCAGGTTGGTATCAAGGTTACAAGACAGGTTAACGGAGA	400
CCAATAGAAACTGGGCATGTGGAGACAGAGAACAGACTCTGGGTTCTGAT	450
AGGCACTGACTCTCTGCCTATTGGTCTATTTCACCCCTAGGCTGC	500
TGGTGGTCTACCCCTGGACCCAGAGGTTCTTGAGTCCTTGGGATCTG	550
TCCACTCCTGATGCTTTAGTGATGGCCTGGCTCACCTGGACAAACCTCA	600
GAAAGTGCTCGGTGCCTTAGTGATGGCCTGGCTCACCTGGACAAACCTCA	650
AGGGCACCTTGCCACACTGAGTGAGCTGCACTGTGACAAAGCTGCACGTG	700

(SEQ ID NO:13)

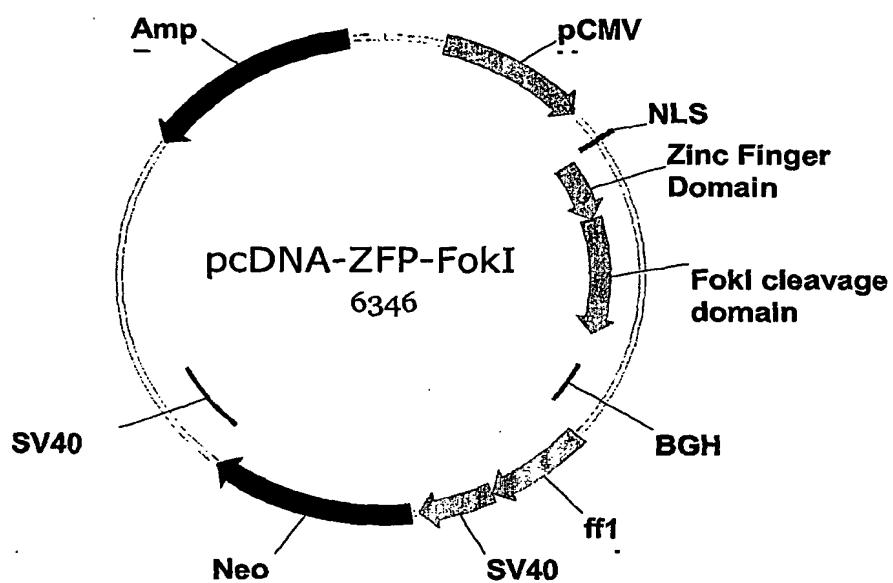
FIGURE 14

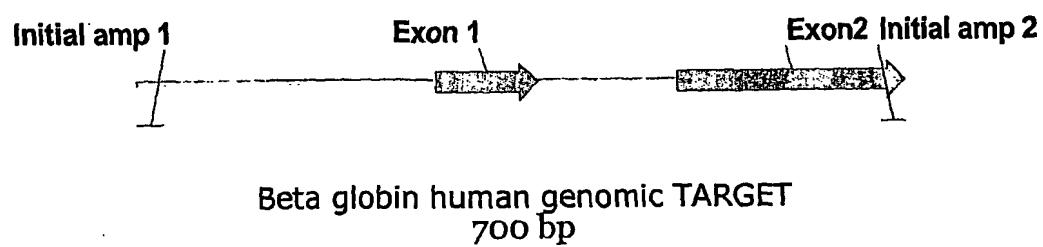
FIGURE 15

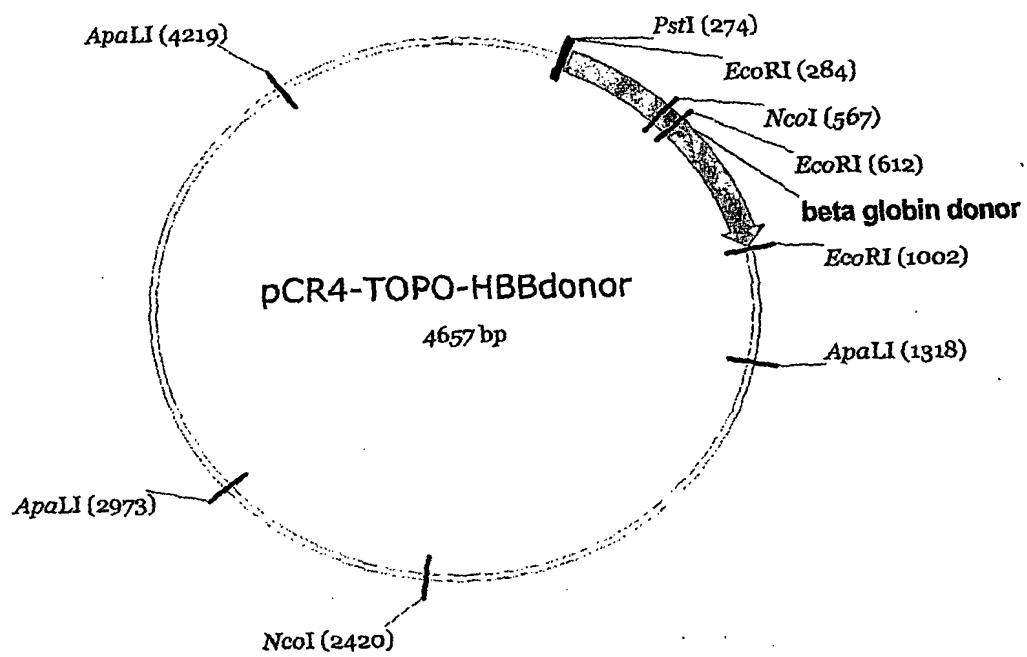
FIGURE 16

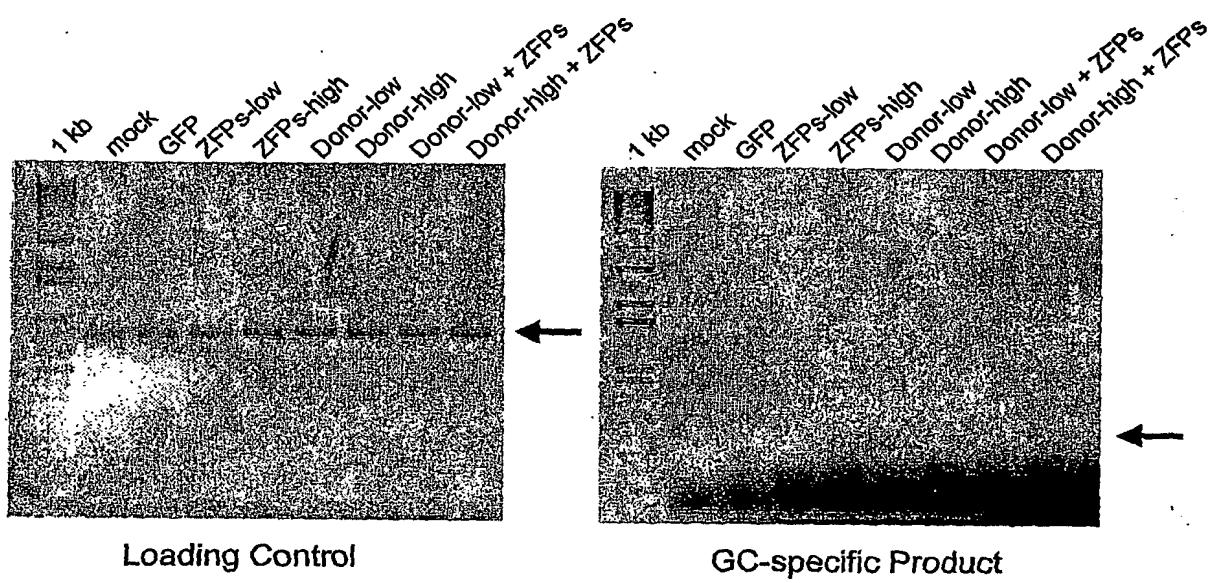
FIGURE 17

FIGURE 18

TGCCTTACCAAGCTGTGATTCCAAATATTACGTAAAATACTTGCAAAGGA 50
GGATGTTTTAGTAGCAATTGTACTGATGGTATGGGGCCAAGAGATATA 100
TCTTAGAGGGAGGGCTGAGGGTTGAAGTCCAACCTCTAAGCCAGTGCCA 150
GAAGAGCCAAGGACAGGTACGGCTGTCATCACTTAGACCTCACCTGTGG 200
AGCCACACCCCTAGGGTTGGCAATCTACTCCCAGGAGCAGGGAGGGCAGG 250
AGCCAGGGCTGGGCATAAAAGTCAGGGCAGAGCCATCTATTGCTTACATT 300
TGCTTCTGACACAACGTGTTCACTAGAACCTCAAACAGACACCATGGT 350
GCATCTGACTCCTGAGGAGAAGTCTGgCGTTAgTGCCCgaattccqAtcG
TcAACcac 400

(SEQ ID NO:14)

FIGURE 19

5-8
CACGTTTCGTGTCGGAGCCGCTTAAACCCACTCTGTGGAAG
GTGCAAAGCACAAGCCTCGCGAAATTGGGTGAGACACCTTC
5-10

(SEQ ID NO:15)

FIGURE 20

1 MAPKKKRKVG IHGVPAAMAE RPFQCRICMR NFSRSNDNLSE HIRTHTGEKP FACDICGRKF
61 ARNAHRRINHT KIHTGSQKPF QCRICMRNFS RSDTLSEHIR THTGEKPFAC DICGRKFAAR
121 STRTTHTKIH LRQDAARGS QLVKSELEEK KSELRHKLKY VPHEYIELIE IARNSTQDRI
181 LEMKVMEFFM KVYGYRGKHL GGSRKPDGAI YTVGSPIDYG VIVDTKAYS GYNLPIGQAD
241 EMQRYVEENQ TRNKHINPNE WWKVYPSSVT EPKFPLFVSGH FKGNYKAQLT RLNHITNCNG
301 AVLSVEELLI GGEMIKAGTL TLEEVRRKFN NGEINF

(SEQ ID NO:16)

FIGURE 21

1 MAPKKKRKVG IHGVPAAMAE RPFQCRICMR NFSRSDSLSR HIRHTGTGEKP FACDICRKF
61 ADSSNRKTHT KIHTGGGSQ KPFQCRICMR NFSRSDSLSV HIRHTGTGEKP FACDICRKF
121 ADRSNRITHT KIHLRQKDA ARGSQQLVKSEL EEKKSSELHK LKYVPHEYIE LIEIARNSTQ
181 DRILEMKVME FFMKVYGYRG KHLGGSRKPD GAIYTVGSP IDYGVIVDTKA YSGGYNLPIG
241 QADEMQRYVE ENQTRNKHIN PNEWWKVYPS SVTEFKFLFV SGHFKGNYKA QLTRLNHITN
301 CNGAVLSVEE LLIGGEMIKA GTLTLEEVRR KFNNGEINF

(SEQ ID NO:17)

FIGURE 22

CGAATTCTGCAGTCACGGTACCGCGGGCCCGGGATCCACCGGTGCCACCATGGTGAGC
AAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCAGCTGGACGGCGACGTA
AACGGCCACAAGTTCAAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTG
ACCTGAAGTTCATCTGCACCACCGCAAGCTGCCGTGCCCTGGCCCAACCTCGTGACC
ACCTGACCTACGGCGTGCAGTGTTCAAGCCGCTACCCCGAACCACATGAAGCAGCACGAC
TTCTTCAAGTCCGCCATGCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGAC
GACGGCAACTACAAGACCCGCCGGAGGTGAAGTTCGAGGGCGACACCCCTGGTGAACCGC
ATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAG
TACAACATACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAAGAACGGCATCAAG
GTGAACCTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTGCCGACCAACTAC
CAGCAGAACACCCCCATCGCGACGGCCCGTGCCTGCCGACAACCAACTACCTGAGC
ACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAG
TTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGC
GACTCTAGATCATAATC

(SEQ ID NO:18)

FIGURE 23

CGAATTCTGCAGTCACGGTACCGCGGCCGGATCCACCGTCGCCACCATGGTGAGC
AAGGGCGAGGAGCTTCAACGGGGTGGTGCCTACCTGGTCGAGCTGGACGGCACGTA
AACGGCCACAAGTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTG
ACCCTGAAGTTCATCTGCACCACCGCAAGCTGCCGTGCCCTGGCCCACCTCGTGACC
ACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCTAACACGAAGCAGCACGACTT
CTTCAAGTCCGCCATGCCGAAGGCTACGTCCAGGAGCGCACCATCTTCAAGGACGA
CGGCAACTACAAGACCCGGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCAT
CGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGACAAGCTGGAGTA
CAAATACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGT
GAACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTGCCGACCACCTACCA
GCAGAACACCCCCATGGCGACGGCCCCGTGCTGCTGCCGACAACCACCTACCTGAGCAC
CCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGCCTGCTGGAGTT
CGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGCGA
CTCTAGATCATAATC

(SEQ ID NO:19)

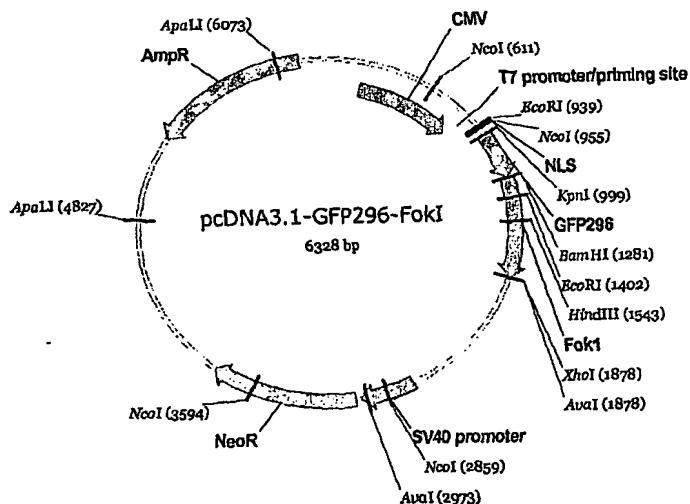
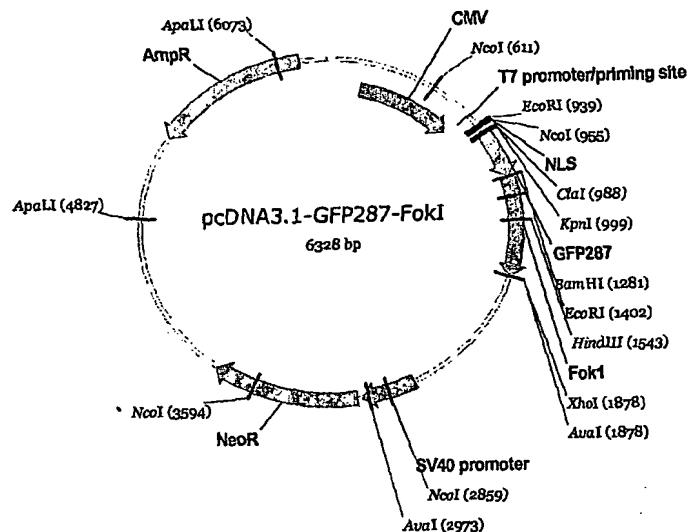
FIGURE 24

FIGURE 25



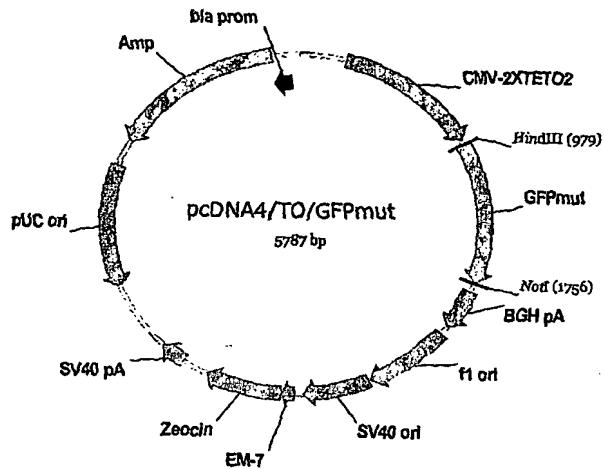
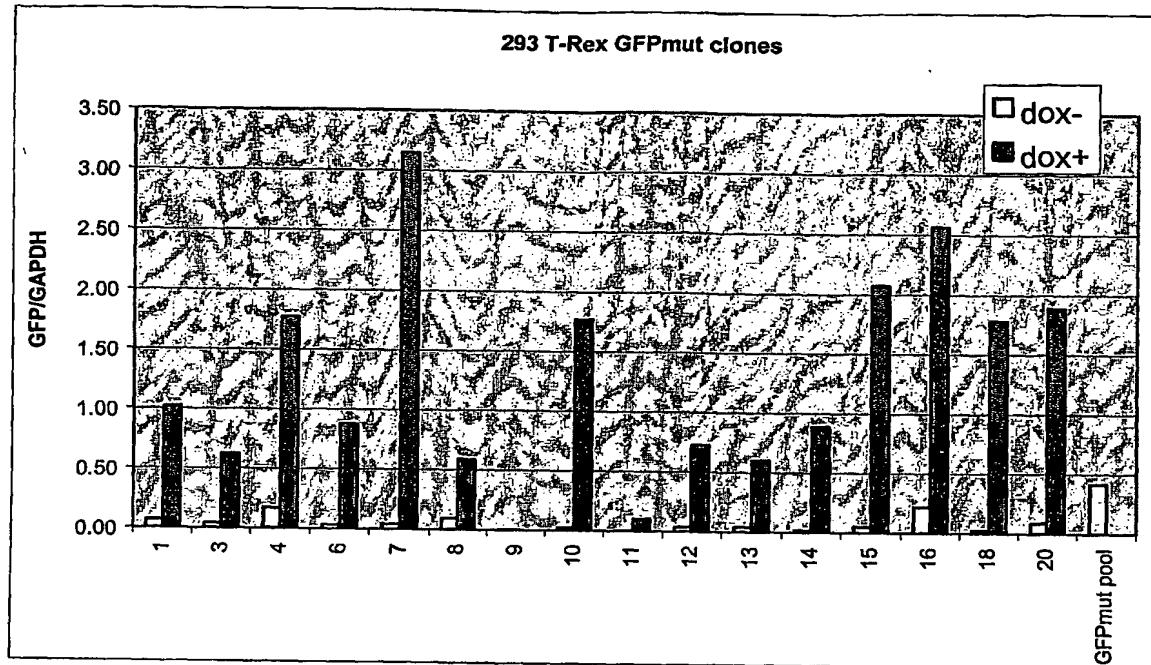
FIGURE 26

FIGURE 27

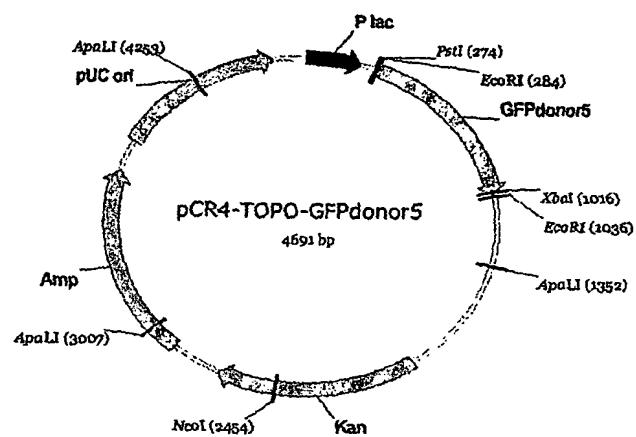
28/45**FIGURE 28**

FIGURE 29

GGCGAGGAGCTGTTACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAAC
GGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACC
CTGAAGTTCATCTGCACCACCGCAAGCTGCCGTGCCCTGCCACCCCTCGTACCGACC
CTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCGACCATGAAGCAGCACGACTTC
TTCAAGTCCCCATGCCGAAGGCTACGTCCAGGAGCGCACCACATCTTCAAGGACGAC
GGCAACTACAAGACCCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCCTGGTGAACCGCATT
GAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGCAAAAGCTGGAGTAC
AACTACAACAGCCACAACGTCTATATCATGGCGACAAGCAGAAGAACGGCATCAAGGTG
AACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAG
CAGAACACCCCCATCGCGACGGCCCCGTGCTGCCGACAACCAACTACCTGAGCACC
CAGTCCGCCCTGAGCAAAGACCCAACGAGAAGCGCGATCACATGGCCTGCTGGAGTTC
GTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGCGAC
TCTAGATCATAATC

(SEQ ID NO:20)

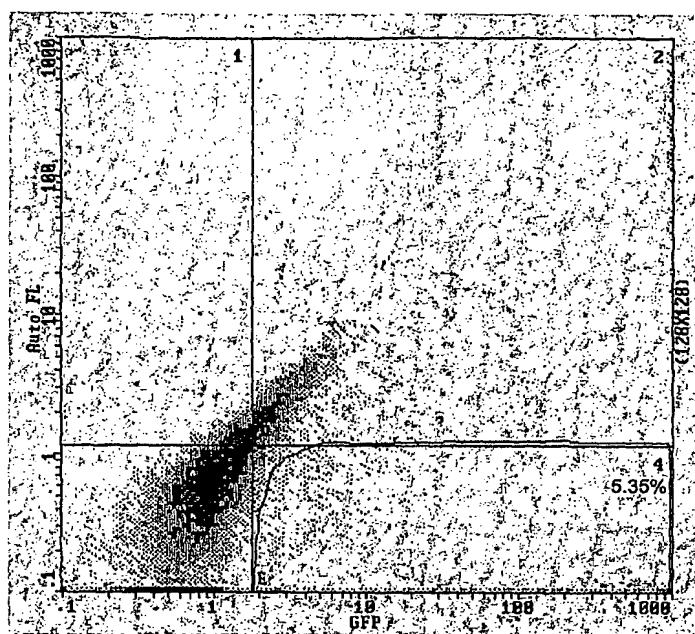
FIGURE 30

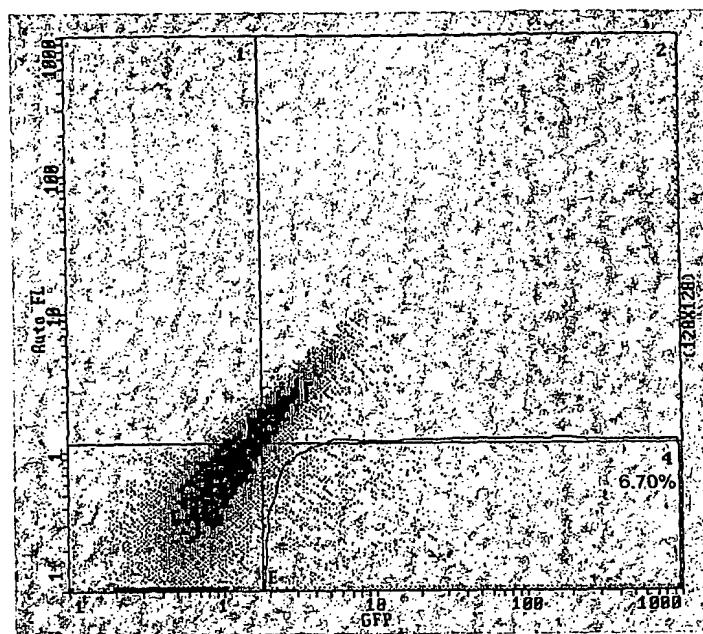
FIGURE 31

FIGURE 32

GGCGAGGAGCTGTTACCGGGGTGGTGCCATCCTGGTCGAGCTGGACGGGACGTAAAC
GGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACC
CTGAAGTTCATCTGCACCACCGGCAAGCTGCCGTGCCCTGGCCCACCCCTCGTGUACCACC
CTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCATGAAGCAGCACGACTTC
TTCAAGTCCGCCATGCCGAAGGCTACGTCCAGGAGCGCACCATCTTCAAGGACGAC
GGCAACTACAAGACCCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCCTGGTGAACCGCATT
GAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGACAAGCTGGAGTAC
AACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAACAGGGCATCAAGGTG
AACTTCAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTGCCGACCACCTACCAAG
CAGAACACCCCCATCGCGACGGGCCGTGCTGCCGACAACCAACTACCTGAGCACC
CAGTCCGCCCTGAGCAAAGACCCAACGAGAAGCGCGATCACATGGTCTCTGGAGTTC
GTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGGCGCTCG
AGTCTAGAGGGCCCGTTAAACCGCTGATCAGCTCGACTGTGCCTCTAGTGCCAGC
CATCTGTTGTTGCCCTCCCCGTGCCCTTGACCCCTGGAAGGTGCCACTCCACTG
TCCCTTCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTG
TGGGGGGTGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCATG
CTGGGGATGCGGTGGCTCTATGGCTCTGAGGCGGAAAGAACCAAGCTGGGCTCTAGGG
GGTATCCCCACGCGCCCTGTAGCGCGCATTAAAGCCGGGGTGTGGTTACGCGCA
GCGTAGCCGCTACACTTGCAGCGCCCTAGCGCCGCTCCTTCGCTTCTCCCTTCC
TTCTGCCACGTTGCCGGCTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTAGGGT
TCCGATTTAGTGCCTTACGGCACCTCGACCCAAAAAAACTTGATTAGGGTATGGTTCAC
GTAGTGGGCCATGCCCTGATAGACGGTTTTCGCCCTTGACGTTGGAGTCCACGTTCT
TTAATAGTGGACTCTTGTCCAAGTGGAAACAACACTCAACCCCTATCTCGGTCTATTCTT
TTGATTATAAGGGATTTGCCGATTCCGGCTATTGGTAAAAAAATGAGCTGATTAAAC
AAAAATTAAACGCGAATTAAATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCC
AGGCTCCCCAGCAGGCGAGAAGTATGCA

(SEQ ID NO:21)

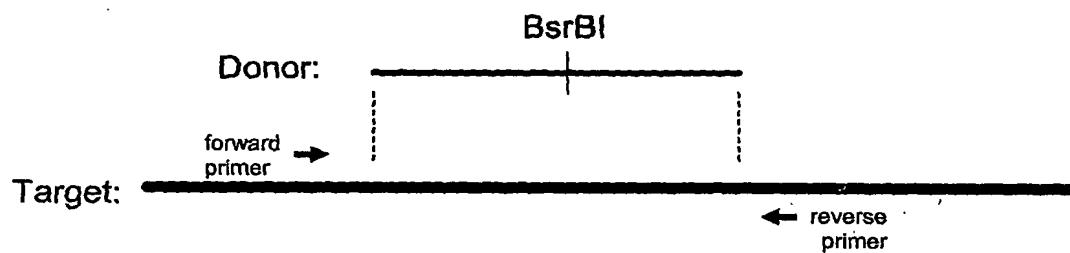
FIGURE 33

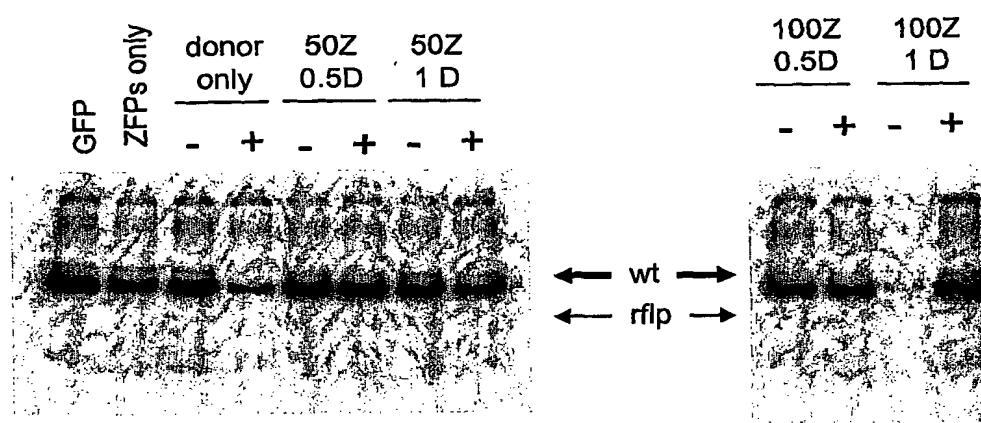
FIGURE 34

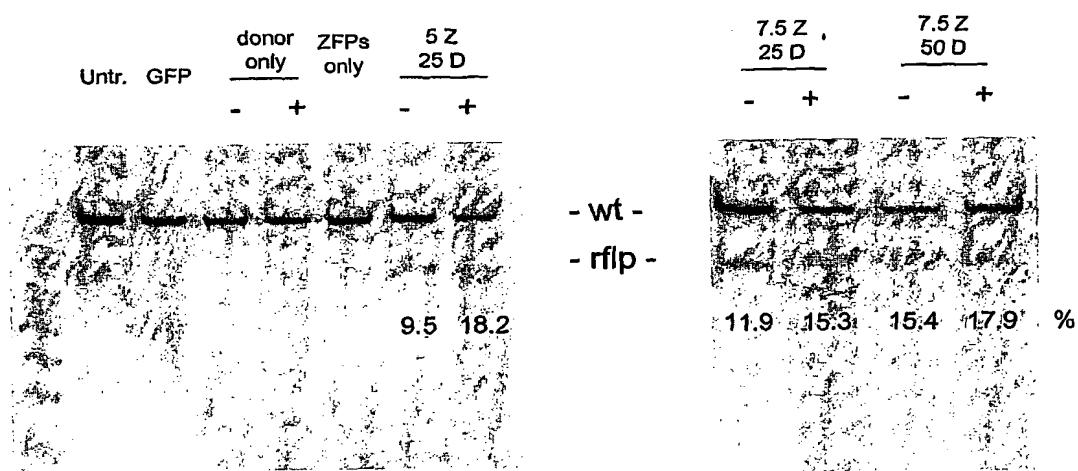
FIGURE 35

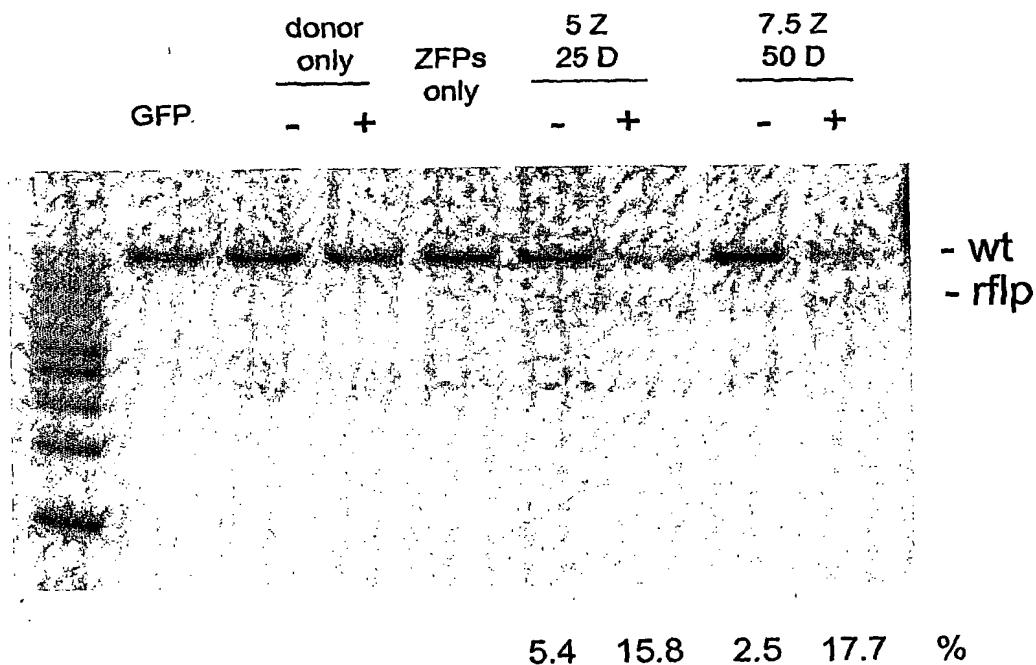
FIGURE 36

FIGURE 37

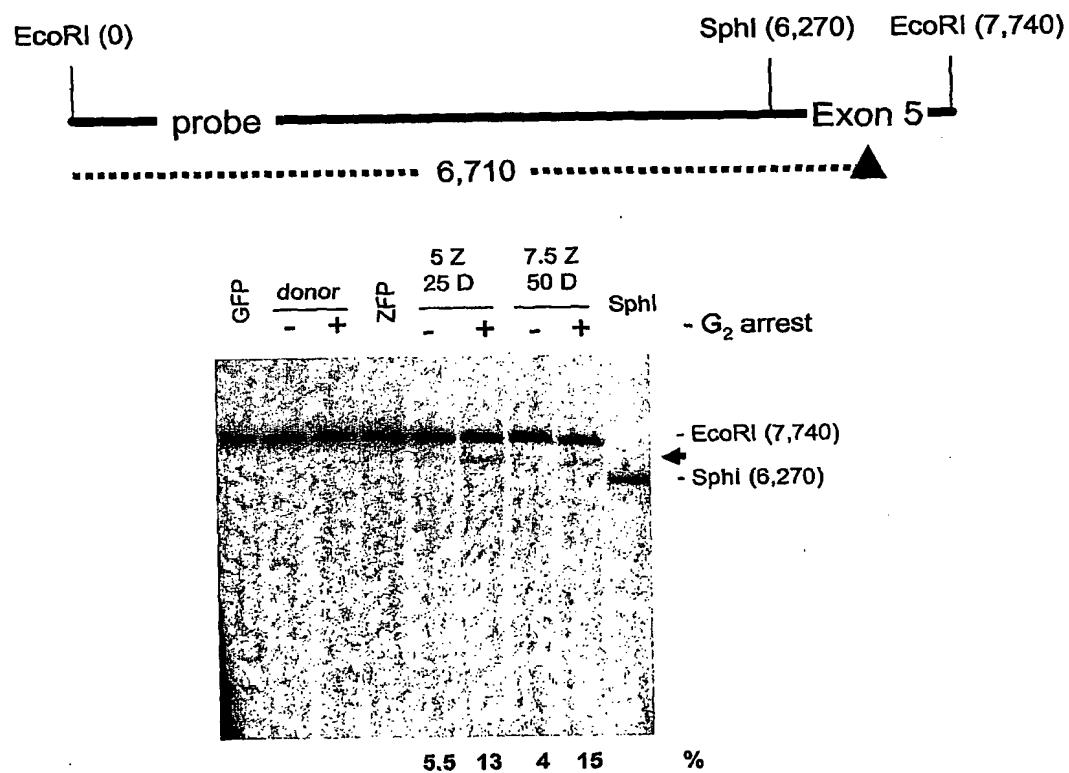


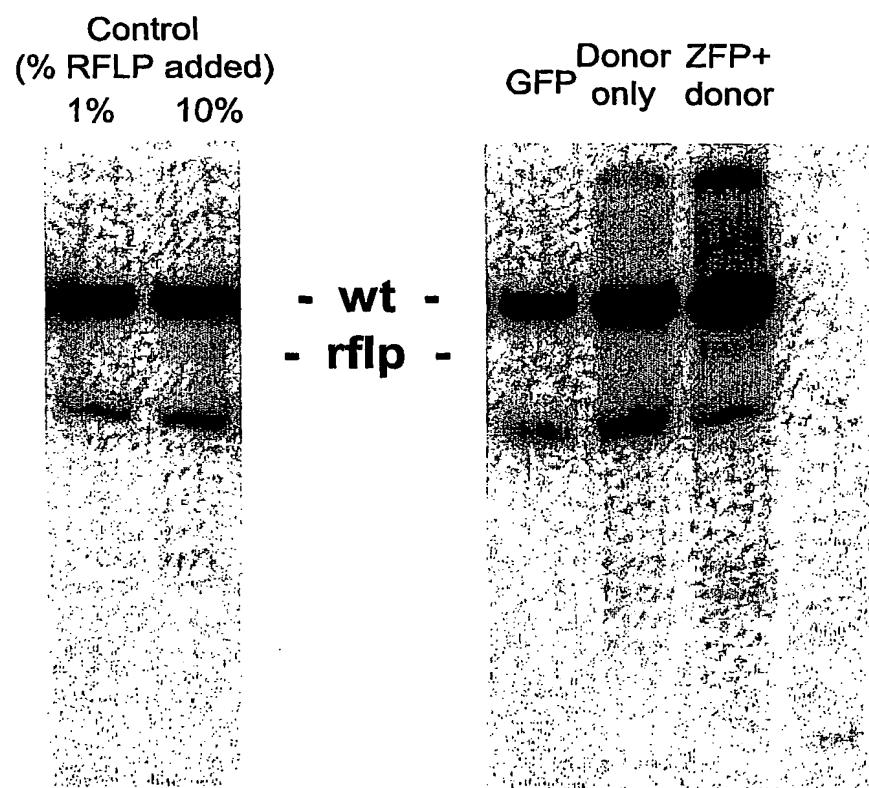
FIGURE 38

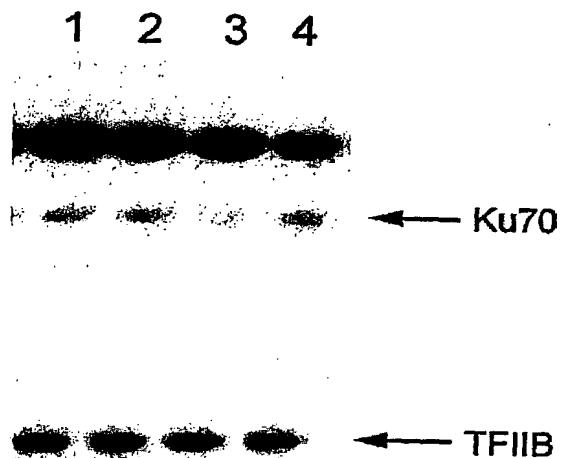
FIGURE 39

FIGURE 40

sca-29b:

MAERPFQCRICMRNFSQSGDLTRHIRHTGEKPFACDICGRKFATSANLSRHTK
IHTGGGGSQKPFQCRICMRNFSDRSALSRHIRHTGEKPFACDICGRKFAQSG
HLSRHTKIH (SEQ ID NO:22)

sca-36a:

MAERPFQCRICMRNFSRSQTRKTHIRHTGEKPFACDICGRKFAQKRNRTKHT
KIHTGSQKPFQCRICMRNFSDRSALSRHIRHTGEKPFACDICGRKFAQSGNLA
RHTKIH (SEQ ID NO:23)

sca-36b:

MAERPFQCRICMRNFSTSGSLSRHIRHTGEKPFACDICGRKFADRSDLSRHTK
IHTGGGGSQKPFQCRICMRNFSDRSALSRHIRHTGEKPFACDICGRKFAQSG
NLARHTKIH (SEQ ID NO:24)

sca-36c:

MAERPFQCRICMRNFSTSSSLSRHIRHTGEKPFACDICGRKFADRSDLSRHTK
IHTGGGGSQKPFQCRICMRNFSDRSALSRHIRHTGEKPFACDICGRKFAQSG
NLARHTKIH (SEQ ID NO:25)

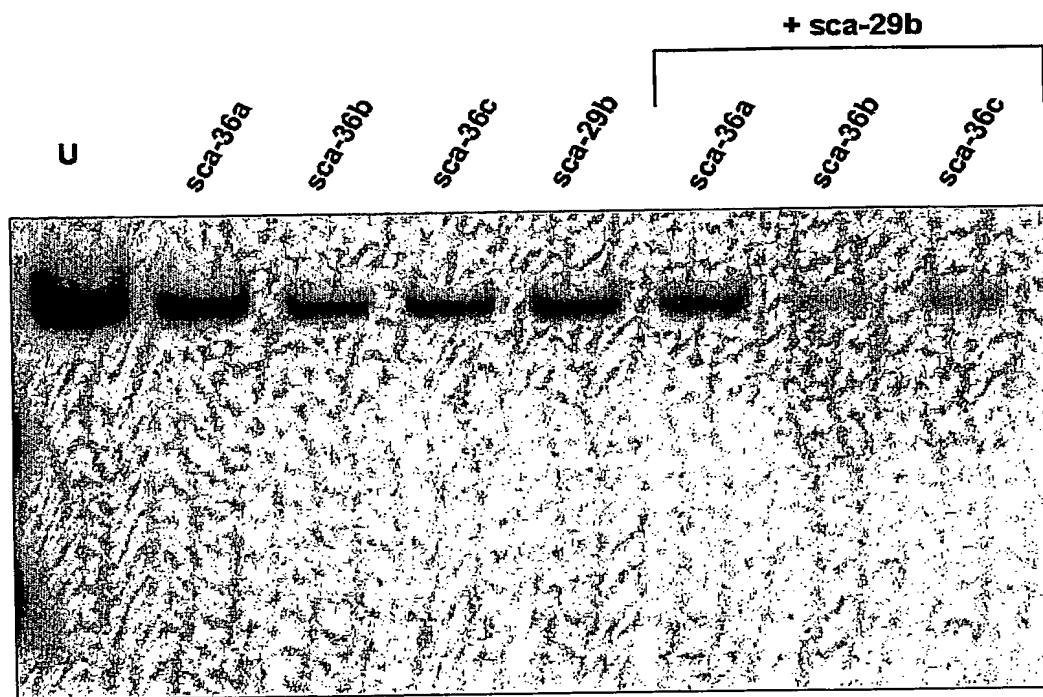
FIGURE 41

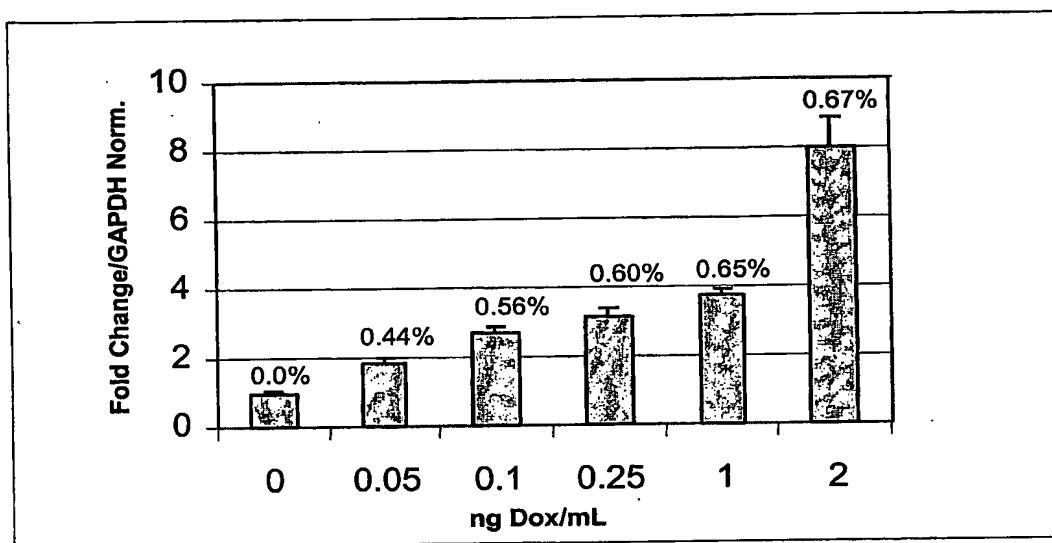
FIGURE 42

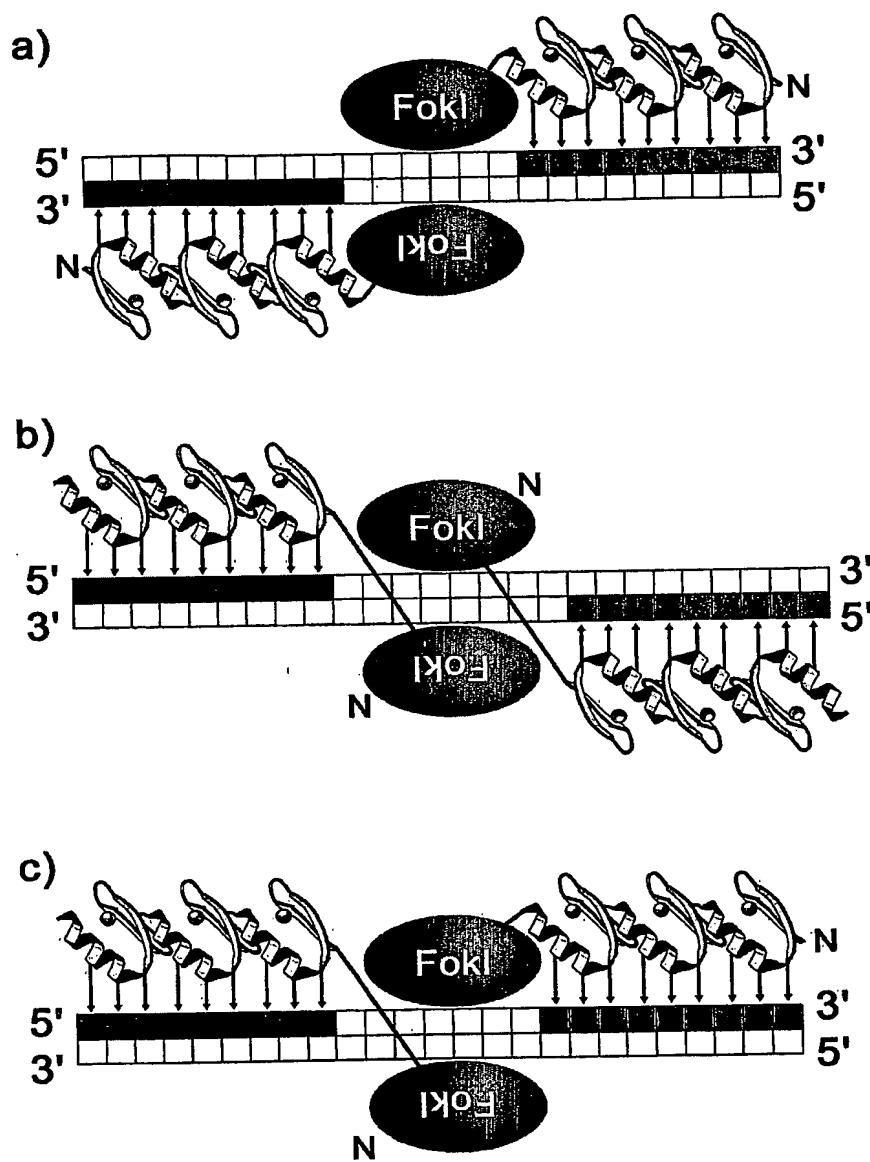
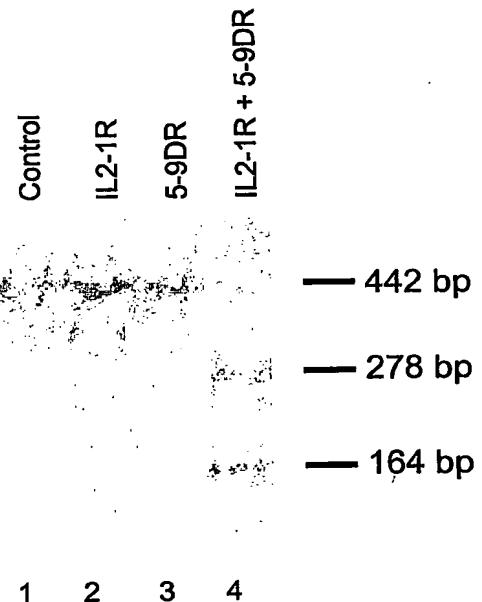
FIGURE 43

FIGURE 44

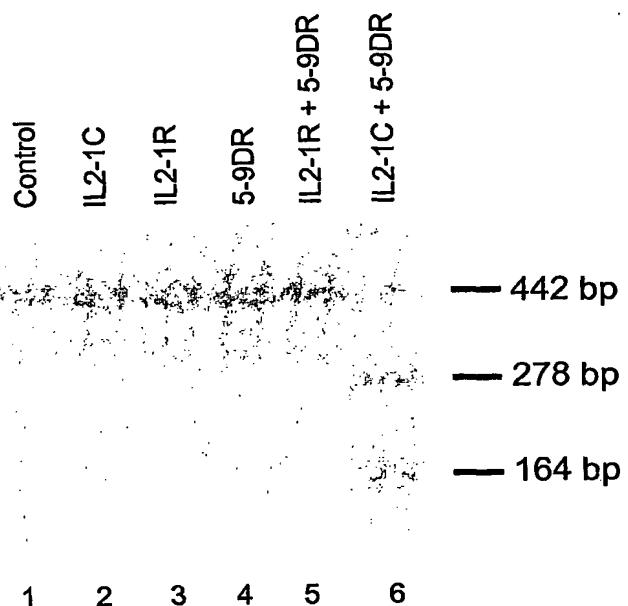
1 2 3 4

59D

-tAAAGCGGCTCCGaaccacATTATCCGAGTTc-
-aTTTCGCCGAGGCttgtgTAATAGGCTCAAg-
 IL2-1

(SEQ ID NO: 211)

FIGURE 45



59D **IL2-1**
-t **AAAGCGGCTCCG**aaccac**AACTCGGATAATg-**
-a **TTTCGGCGAGGCt**tggtg**TTGAGCCTATTAc-**

(SEO ID NO: 212)

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